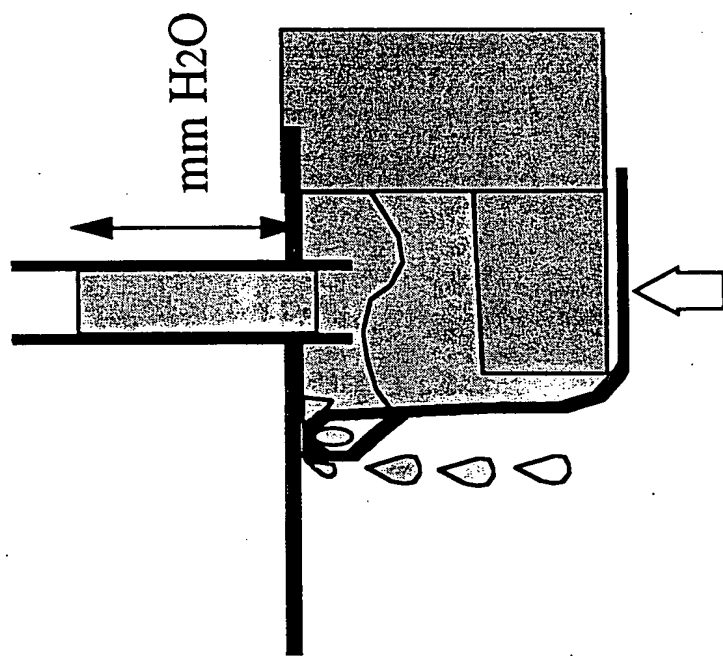
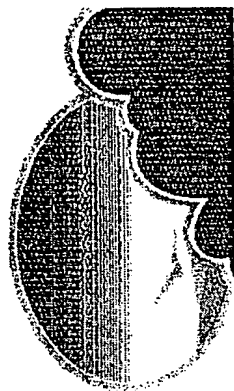


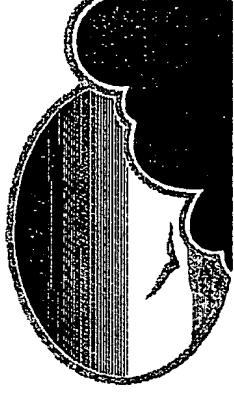
# 1 Method/Apparatus

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# Patent, sealing

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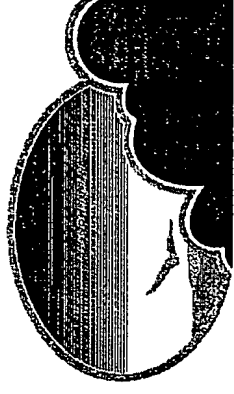
## ◆ Theory

$$\Delta P = 2\gamma \cos \theta / r$$

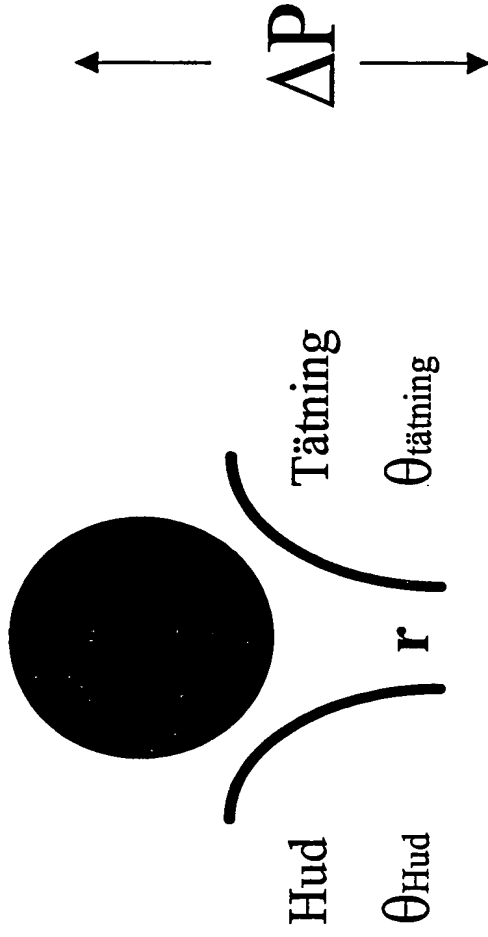
Sealing ability to  
withstand pressure  
from urine

# Patent, sealing

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## ◆ Theory



$$\Delta P = 2\gamma \cos \theta / r$$

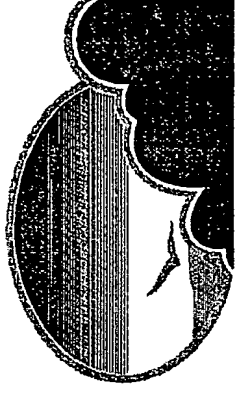
Estimation of  $\theta$

$$\cos \theta = (x \cos \theta_{\text{Hud}} + y \cos \theta_{\text{Tätning}}) / x + y$$

x and y depends of the shape of the pore

# Patent, sealing

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## ◆ Example

- Huggies standing gather at 30% available stretch

$$\theta_{\text{hud}} = 74^\circ \text{ (plexiglas)}$$

$$\theta_{\text{tätning}} = 120^\circ \text{ (NW)}$$

$$\gamma = 0,06 \text{ N/m (SUM)}$$

$$r = 0,13 \text{ mm}$$

$$\cos\theta = (\cos\theta_{\text{hud}} + 3\cos\theta_{\text{tätning}})/4$$

$$\Delta P = 2\gamma\cos\theta/r = 28 \text{ mmvp}$$

(Measured value = 30 mmvp)